F. STEWART & E. W. NEISWANGER.

SHOVELING BOARD.

APPLICATION FILED JUNE 17, 1908.

944,109. Patented Dec. 21, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

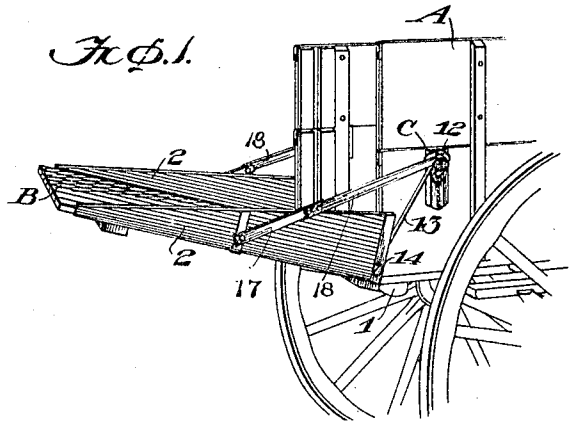
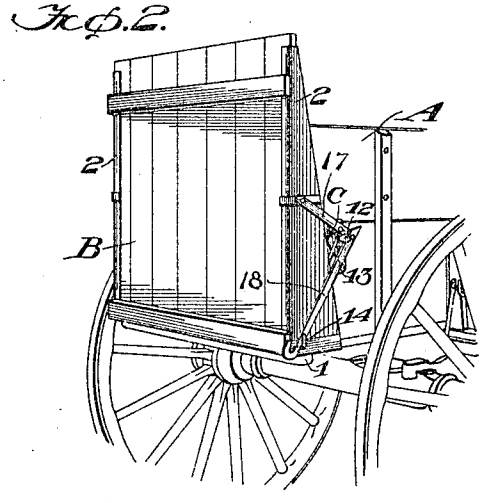


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

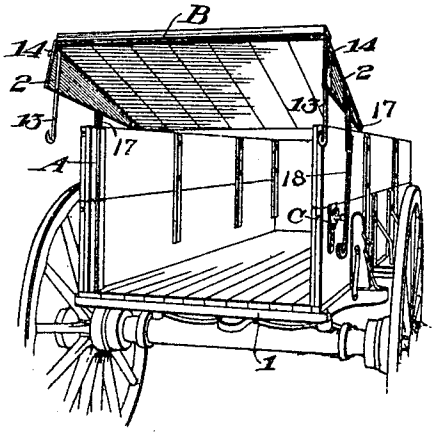


Fig. 4.

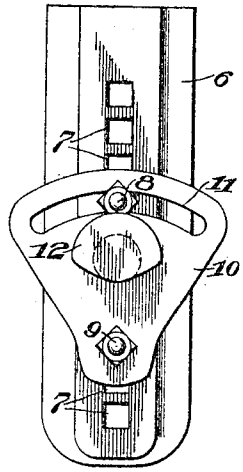


Fig. 5.

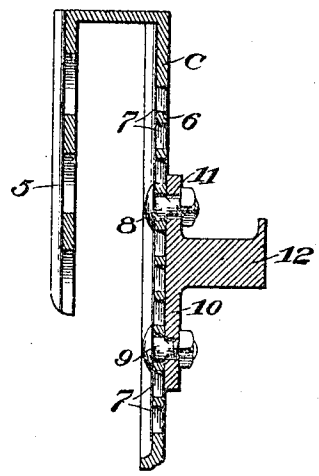
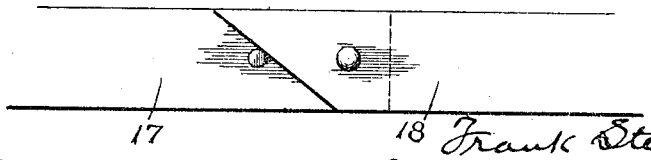


Fig. 6.



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UNITED STATES PATENT OFFICE.

FRANK STEWART AND ELI W. NEISWANGER, OF WASHINGTON, IOWA.

SHOVELING-BOARD.

944,109. Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed June 17, 1908. Serial No. 439,083.

To all whom it may concern:

Be it known that we, FRANK STEWART and ELI W. NEISWANGER, citizens of the United States, residing at Washington, in the county of Washington and State of Iowa, have invented certain new and useful Improvements in Shoveling-Boards, of which the following is a specification.

Our invention relates to an improvement in shoveling boards, adapted for attachment to any standard make of wagon box, and the object of this invention is to provide a shoveling board having the qualities of simplicity, durability and utility.

Other objects are to provide a board capable of attachment to a wagon box without the necessity of boring bolt holes therein or otherwise injuring, weakening, or defacing, or unduly impairing the side of the wagon box.

With these objects in view, our invention consists in an adjustable clamp and bracket constructed and adapted to be mounted on the box astride the sides at a point preferably just forward of the rear cleats and in connection with an end-gate and link bar connection for supporting the shoveling board when lowered, and for locking it when closed.

Our invention further consists in certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claims.

In the accompanying drawings:—Figure 1 is a view in perspective with the shoveling board lowered, Fig. 2 is a similar view showing it closed or in vertical position, Fig. 3 shows it raised above the wagon box to allow grain to run freely out of the rear end of the box, Fig. 4 is an enlarged detail view of the adjustable clamp and bracket, Fig. 5 is a section through the latter, and Fig. 6 is an enlarged detail view of the link bars.

The wagon box A is provided with a cross-bar 1 at the lower rear end, the ends of which cross-bar project slightly beyond the sides of the box.

B, is the shoveling gate, the sides 2, 2, of which are preferably made of sheet steel to afford strength and yet not materially increase the weight.

C, indicates the adjustable bracket which is preferably made in the form of a casting comprising two members 5 and 6, adapted to straddle the sides of the wagon box, thus avoiding the necessity of boring holes therein, and making it a permanent connection, but rendering it possible on the contrary to slide it along in different positions, or to remove it at any time. The outer side is provided with vertically disposed row of holes 7, 7, adapted to receive bolts 8 and 9 for the pivotal and adjustable support of the segmental bracket 10. The lower bolt affords a pivotal support for the bracket, and the upper bolt works in a curved slot 11 which admits of the swinging or lateral adjustment of the bracket. Although we have shown a continuous slot, a curved row of holes might be employed as the equivalent. The holes in the clamp are slightly countersunk on the inner surface to receive the heads of the bolts, so they will not strike the outer surface of the wagon box. These brackets each have a stud 12 thereon.

The shoveling board is provided with hooks 13, 13, which engage these studs for the support of the lower and inner end of the shoveling board when raised or lowered. Link bars, 17, 18, as shown in Fig. 6 are pivotally connected to each side of the shoveling board, at or near the center of the latter, and these link bars are provided with a hook at the free end adapted to engage the stud when the board is lowered, as shown in Fig. 1. The link bars 17, 18, have the further function of embracing the stud at the joint when the shoveling board is raised to its vertical position and locked, the free or hooked end of the link bars being sprung over a lug 14 at the lower end of each side of the shoveling board.

The purpose of the adjustment of the clamp and bracket is to adapt it to different makes and sizes of wagon boxes. For instance, where the wagon box is high, the adjustable bracket would be bolted lower down thereon, and if the box was comparatively low, it would be bolted at a higher point on the clamp. The lateral adjustment also admits of the stud carried by the bracket being shifted forwardly or rearwardly as required, by the location of the clamp.

From the foregoing it will be seen that the entire attachment may be applied without the use of tools, and with the utmost facility, not requiring any special mechanical skill, and the parts are easily and quickly adjusted to suit the size and make of wagon box, and

the placing of the shoveling board is simple and quickly accomplished to perform its different functions.

It is evident that more or less slight changes might be resorted to in the form and arrangement of the several parts described, without departing from the spirit and scope of our invention, and hence we do not wish to limit ourselves to the exact construction herein set forth, but:—

Having fully described our invention, what we claim as new and desire to secure by Letters Patent, is:—

1. In a shoveling board, an adjustable bracket adapted to straddle the side of the wagon box, and a segmental bracket having pivotally and vertically adjustable connection at one point with the adjustable bracket, and means connected with the two parts for locking the segmental bracket in its various pivoted positions with respect to the adjustable bracket, said segmental bracket carrying a stud thereon.

2. An adjustable clamp and bracket for shoveling boards comprising a clamp constructed to fit over the edge of a wagon box, said clamp provided with perforations, a segmental bracket pivoted to the clamp, said bracket having a curved elongated slot therein and means connected to the clamp and extending through the slot whereby the bracket is adjusted.

3. An adjustable clamp and bracket for shoveling boards comprising a clamp constructed to fit over the edge of a wagon box, said clamp provided with a series of perforations, a segmental bracket pivoted to the clamp by means of a bolt passing through one of the perforations, said bracket provided with a curved elongated slot and a bolt adapted to pass through one of the perforations in the clamp and the slot in the bracket whereby the bracket is adjusted.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANK STEWART.
ELI W. NEISWANGER.

Witnesses:
W. M. BLACK,
A. S. FOLGER.